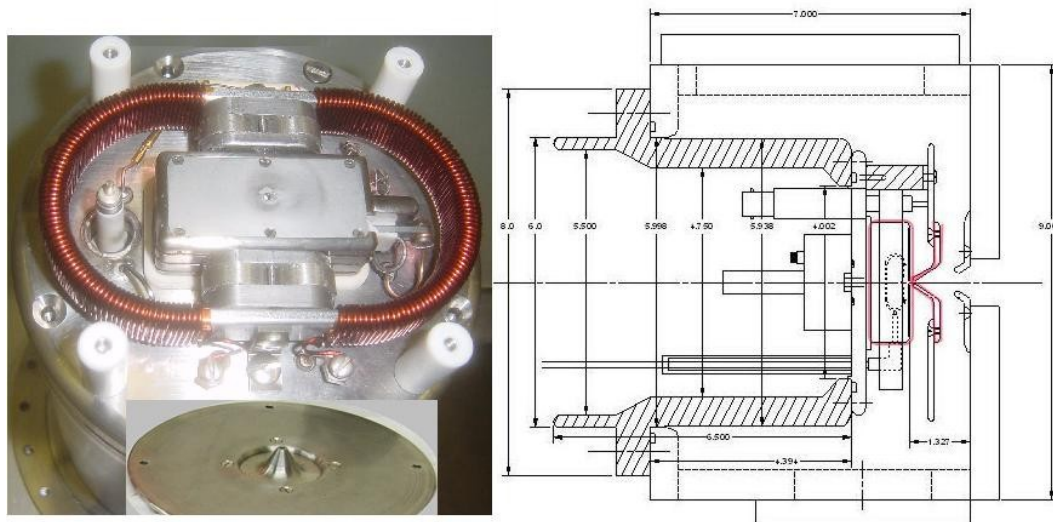


Pre-injector Upgrade Updates (26 May – 09 Jun 2010)

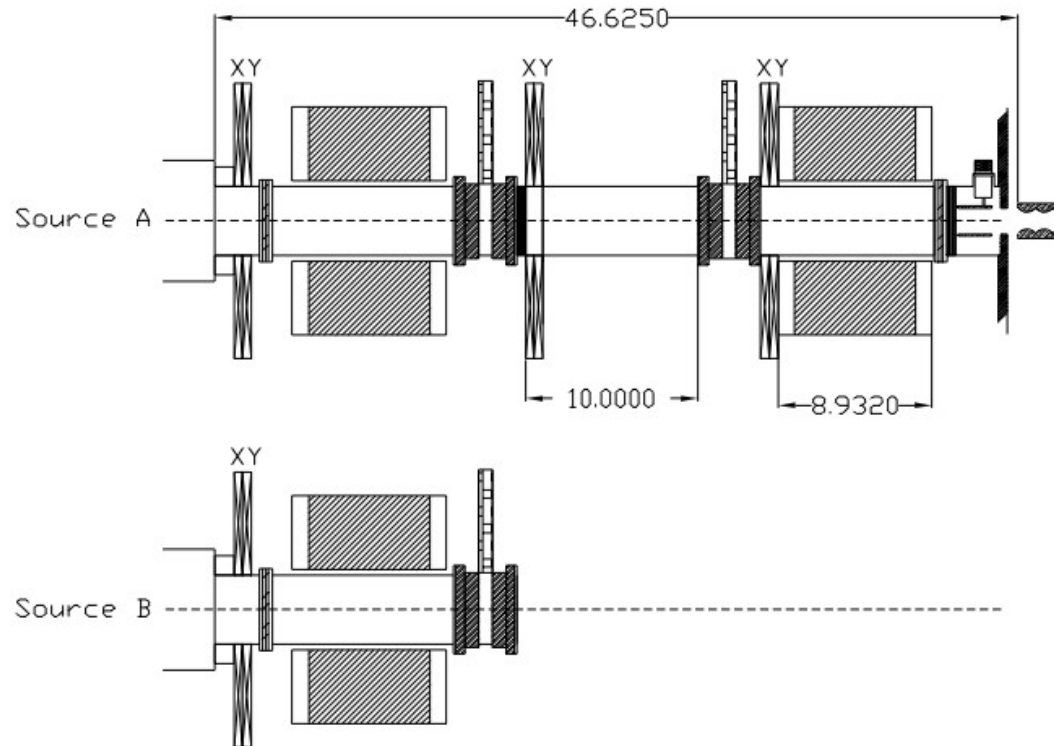
C.Y. Tan
09 Jun 2010

Source Status



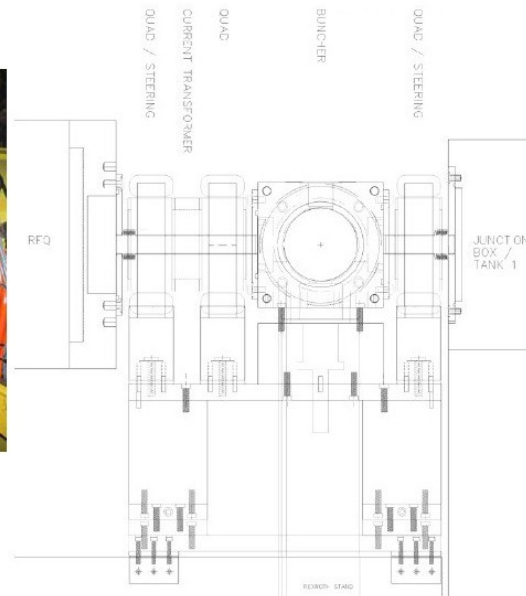
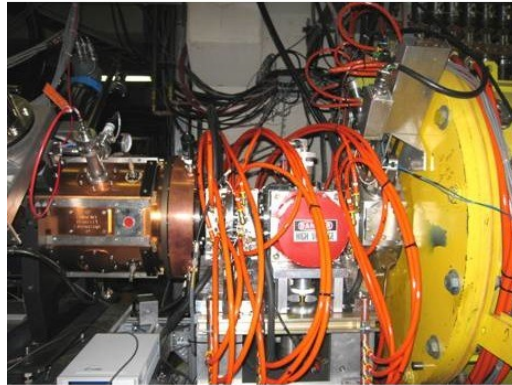
Device	Status	Comments
Source	65mA extracted @25kV extraction voltage, 7.5Hz, 500us	extractor built of molybdenum
Pulser		Rebuild with bigger box (sparking in relay)

LEBT Status



Device	Status	Comments
Power for solenoids		Off the shelf supplies (500A)
Correctors	Bdl=186.5 gauss inches	Vendor sought
Einzel Lens		Beam shot at it at >35kV. No sparking
Pulser for Einzel	Waiting for spec sheet.	Behlke switch \$11.5k.
Solenoids		3D drawing done. 2D will take another month
		Need to discuss mounting
Toroid	2 nd one before solenoid 2	Cannot be inside tank

MEBT Status



Device	Status	Comments
Quads	Check that aperture can be increased from 1.25" to 1.5"	TOSCA model, questions whether they will work at 15Hz etc.
Buncher	Getting cold model to test	Will be installed at BNL in summer
Power for quads	Must have specs ok from (TD)	Use linac quad supplies?
Power for buncher		Use present buncher supply in the line.

RFQ Status

- Waiting for output emittances and Twiss params.
- PS for RFQ is here. Installed upstairs.

RFQ PA



RFQ PA from ANL is in the linac gallery.

Test Stand

- Room has been cleaned up.
 - After beam line layout (progress?)
 - Water – Bob Slazak
 - Electrical – Jim Ranson
- Need to test LEBT before RFQ connection
 - Wires, toroids at the end of the LEBT, same position as the RFQ.

Safety

- When can the beam line layout in test area be done?

Controls

- Mike Kucera will need to be involved.

RFQ reminders

- Schempp is vendor
 - Make sure that the vanes are cleaned! See ISIS email.
 - Some cleaning details supplied by ISIS.
 - Review and verify on site mechanical design and construction (already in contract).
- Add current transformers at beginning and end of RFQ. (Save space in MEBT).
 - Once vendor is finalized, we have to design “ends” of the vacuum structure.